NewsRelease

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For Release: Sept. 7, 2001

RELEASE NO. 01-097

TUESDAY, SEPTEMBER 11

Combustion Devices: From Bunsen Burners to Jet Engines

Since the Industrial Revolution and before, combustion has been used as a source of heat, light and power. Engineers have successfully increased the efficiency of combustion devices while reducing the levels of pollutant emissions.

Stephen B. Pope, Sibley College professor, Cornell University, will speak on "Computational Combustion: from Molecular Processes to Combustor Design" at a colloquium at 2 p.m., Tuesday, Sept. 11, at NASA Langley's H.J.E. Reid Conference Center.

Media Briefing: A media briefing will be held at 1:15 p.m. at the H.J.E. Reid Conference Center, 14 Langley Blvd., at NASA Langley Research Center. Members of the media who wish to attend should contact Kimberly W. Land (757) 864-9885.

Pope will describe the progress made in the development of computational approaches to combustion, which aim at providing detailed quantitative predictions of the combustion process, and facilitate the design optimization and control of combustion devices.

A member of the Cornell faculty since 1982, his research activities include stochastic modeling of turbulence phenomena, direct numerical simulations of turbulence and computational methods for combustion chemistry.

Pope earned undergraduate and graduate degrees in mechanical engineering from Imperial College in London. As publisher of the textbook, "Turbulent Flows," he is also the author of more than 100 research papers. Pope has been a consultant to The Boeing Company, Exxon, General Electric, General Motors, Rolls-Royce and others.

The general public is invited to the Sigma Series lecture on the same topic at the Virginia Air and Space Center, 600 Settler's Landing Rd., Hampton, at 7:30 p.m. that evening.

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